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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/698,419



DATE: 11/20/2000

TIME: 14:16:10

69 <220> FEATURE:

70 <221> NAME/KEY: misc_feature 71 <222> LOCATION: (1274) RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/698,419

DATE: 11/20/2000 TIME: 14:16:10

Input Set : A:\Pto.amc

Output Set: N:\CRF3\11202000\1698419.raw

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RAW SEQUENCE LISTING DATE: 11/20/2000 PATENT APPLICATION: US/09/698,419 TIME: 14:16:10

Input Set : A:\Pto.amc

Output -Set: N:\CRF3\11202000\1698419.raw

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   141 Ser Ser Ala Asp Ala Arg Gln Lys Ala Phe Asn Thr Cys Thr Ala His
                       235
                                            240
  144 att tgt gee att gtt tte tee tat aet.cca get tte tte tee tte ttt
  145 Ile Cys Ala Ile Val Phe Ser Tyr Thr Pro Ala Phe Phe Ser Phe Phe
                                       255
                  250
   148 tee cac ege tit ggg gaa cac ata ate eec eet tet ige eac ate att
  149 Ser His Arg Phe Gly Glu His Tle Ile Pro Pro Ser Cys His Ile Ile
  150 265
                                    270
                                                                              1038
  152 gta gcc aat att tat etg etc eta eea eec act atg ääc eet att gte
  153 Val Ala Asn Ile Tyr Leu Leu Leu Pro Pro Thr Met Asn Pro Ile Val
                              285
  156 tat ggg gtg aaa acc aaa cag ata cga gac tgt gtc ata agg atc ctt
                                                                              1086
  157 Tyr Gly Val Lys Thr Lys Gln Ile Arg Asp Cys Val Ile Arg Ile Leu
158 295 300 305 310
  160 tea ggt tot aag gat acc aaa too tac agc atg tga atgaacactt
                                                                              1132
  161 Ser Gly Ser Lys Asp Thr Lys Ser Tyr Ser Met
                     315
                                          320
  164 gecaggagtg agaagagaag gaaagaatta cftctatttg cetextatge aggagtteat 1192
-> 166 aaaatettte tggaagtact gtattgatea caaaatggag tttgntgact ggtgcattet 1252
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  183 Phe Cys Ser Met Tyr Val Val Ala Met Val Gly Asn Cys Gly Leu Leu 184 35 40 45
  186 Tyr Leu Ile His Tyr Glu Asp Ala Leu His Lys Pro Met Tyr Tyr Phe 187 \phantom{-}50\phantom{+}55\phantom{+}\phantom{0} 60
  189 Leu Ala Met Leu Ser Phe Thr Asp Leu Val Met Cys Ser Ser Thr Ile 190 65 70 75 80
  192 Pro Lys Ala Leu Cys Ile Phe Trp Phe His Leu Lys Asp Ile Gly Phe 193 \phantom{000}85\phantom{000} 95
  195 Asp Glu Cys Leu Val Gln Met Phe Phe Ile His Thr Phe Thr Gly Met 196 100\, 105 110\,
  198 Glu Ser Gly Val Leu Met Leu Met Ala Leu Asp Arg Tyr Val Ala Ile
199 115 120 125
  201 Cys Tyr Pro Leu Arg Tyr Ser Thr Ile Leu Thr Asn Pro Val Ile Ala
  202 130
                               1.35
  204 Lys Val Gly Thr Ala Thr Phe Leu Arg Gly Val Leu Leu Ile Ile Pro
                         150 155
  207 Phe Thr Phe Leu Thr Lys Arg Leu Pro Ser Cys Arg Gly Asn Ile Leu 208 $155$ $170$ $175$
  210 Pro His Thr Tyr Cys Asp His Met Ser Val Ala Lys Leu Ser Cys Gly
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 RAW SEQUENCE LISTING
 DATE: 11/20/2000

 PATENT APPLICATION: US/09/698,419
 TIME: 14:16:10

Input Set : A:\Pto.amc

Output Set: N:\CRF3\11202000\1698419.raw

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214 195 200 205
216 Gly Gly Phe Asp Ile Leu Cys Ile Thr Tle Ser Tyr Thr Met Ile Leu 217 210 215 220
219 Arg Ala Val Val Ser Leu Ser Ser Ala Asp Ala Arg Gln Lys Ala Phe 220 225 230 235 235
222 Asn Thr Cys Thr Ala His Tle Cys Ala Ile Val Phe Ser Tyr Thr Pro
223 245 250
225 Ala Phe Phe Ser Phe Phe Ser His Arg Phe Gly Glu His Ile Ile Pro 226 260 265 270
228 Pro Ser Cys His Ile Ile Val Ala Asn Ile Tyr Leu Leu Leu Pro Pro 229 275 280 285
231 Thr Met Asn Pro Ile Val Tyr Gly Val Lys Thr Lys Gln Ile Arg Asp 232 290 295 300
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240 <211> LENGTH: 1014
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255 act att gat gac ttc.cgc aat caa gtg tat tcc acc ttg tac tct atg
256 Thr Ile Asp Asp Phe Arg Asn Gln Val Tyr Ser Thr Leu Tyr Ser Met 257 20 25 30
259 ato tot gtt gta gge tto tit gge aat gge tit gtg etc tat gte etc
260 The Ser Val Val Gly Phe Phe Gly Asn Gly Phe Val Leu Tyr Val Leu 261 40 45
263 ata aaa acc tat cac aag aag toa goo tto caa gta tac atg att aat
264 lle Lys Thr Tyr His Lys Lys Ser Ala Phe Gln Val Tyr Met Ile Asn 265 \phantom{+}50\phantom{+}50 . 55
267 tha goa gta goa gat cha cht tit ghig the aca chi cet che egh ghig
268 Leu Ala Val Ala Asp Leu Leu Cys Val Cys Thr Leu Pro Leu Arg Val
                         .70
                                              75
271 gto tat tat gtt cae aaa ggo att tgg oto ttt ggt gao tto ttg tgo
272 Val Tyr Tyr Val His Lys Gly Ile Trp Leu Phe Gly Asp Phe Leu Cys.
273 90 95
275 ege etc age acc tat get ttg tat gtc aac etc tat tgt age atc tte
276 Arg Leu Ser Thr Tyr Ala Leu Tyr Val Asn Leu Tyr Cys Ser Ile Phe 277. 100 \hspace{1.5cm} 105 \hspace{1.5cm} 105
                                     105
                100
279 tht atg aca god atg age the the egg tgc att goa att gtt the coa
280 Phe Met Thr Ala Met Ser Phe Phe Arg Cys Ile Ala Ile Val Phe Pro
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RAW SEQUENCE LISTING DATE: 11/20/2000 PATENT APPLICATION: US/09/698,419 TIME: 14:16:10

Input Set : A:\Pto.amc

Output Set: N:\CRF3\11202000\1698419.raw

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284	Val	Gln	Asn	Lle	Asn	Leu	Val.	Thr.	Gl n	Lys	Lys	Al.a	Arg	Phe	Val	Cys	
285		130					135			•		140					
287	qta	ggt	att	tgg	att	ttt	qtq	att.	ttg	acc	agt	tct	cca	ttt	cta	atg	480
			Tle														
289	145	-		-		1.50					155					160	
291	gee	aaa	cca	caa	aaa	gat.	qaq	aaa	aat	aat.	acc	aaq	tac	ttt	gag	ccc	528
			Pro									-	-				
293					165			2 -		1.70					175		
	cca	caá	gac	aat.		act	aaa	aat	ċat		tta	atc	ttq	cat	tat	qtq	576
			Asp														
297		0.0.10		1.80			2		185					190			
	tca	t t a	ttt		aac	ttt	atc	atic		ttt	at.t.	at.t.	at.a		at.c	t.a.t.	624
			Phe														
301		200	195					200					205			- 2 -	
	tac	aca	atq	atc	att	tita	acc		ćta	aaa	aaa	t.ca		aaa	aaa	aat	672
			Met			-											
305	+ 1 +	21.0		140	11.0	D()(x	215			2,0	-10	220		22	2,0		
	cto		.agt	cat	aaa	аад		ata	aga	ata	ate		ate	ata	acc	act	720
	.,		Ser				-					_	-			7	
	225		50.1		2,5	230		.11	0.1		235		,			240	
		ttt	tta	atc	ant		ato	cca	tat	cat		caa	cat	acc	att		768
			Leu														, 00
3.1.3		1110	L.C 4	V 4 1	245	1110	11,000	1.10	+ , -	250	1.1.0	0.1.1			255		
		éat	ttt	tta		aat	gaa	act	ааа		tat	gat	tet	ate		aga	816
			Phe														
317	ac a		1 110	260	114.0	111,11			265		0,70	F	001.	270			
	at d	cad	aag		ata	atc	ata			tet	cta	act	gca			t.at.	864
			Lys														
321			275	•				280					285				
	tac		gac	cct	'ct.c	cta	t.a.t.		ttt	tct	aaa	aat.	aac	ttt	agg	aaa	912
			Asp									-					
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	agg		t.c.t.	-	ttt	aga	aaq	cat	tict	tta	tcc	agc	ata	act	tat	gta	960
			ser														
329						310	1				315					320	
		àga	aag	aaq	acc.		t.t.a	cca	gaa	aaa		qaa	qaa	ata	tat.		1008
			Lys														
333		,	,	-2-	325					330	•				335	,	
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336	-	3															
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					-			2						•			



Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY

DATE: 11/20/2000

PATENT APPLICATION: US/09/698,419

TIME: 14:16:11

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Output Set: N:\CRF3\11202000\1698419.raw

L:12 M:270 C: Current Application Number differs, Replaced Application Number L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date L:75 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 L:166 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 L:168 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 L:546 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5 L:176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 L:1178 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 L:128 M:341 W: (45) "n" or "Xaa" used, for SEQ ID#:13 L:2044 M:283 W: Missing Blank Line separator, <220> field identifier

OIPE

RAW SEQUENCE LISTING DATE: 11/13/2000 PATENT APPLICATION: US/09/698,419 TIME: 15:48:16

Input Set : A:\6276NCPseq.txt

Output Set: N:\CRF3\11132000\1698419.raw

Does Not Comply Corrected Diskette Needed

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4 <110> APPLICANT: Vogeli, Gabriel
             Wood, Linda S.
     6. Merchant, Kalpana
8 <120> TITLE OF INVENTION: G PROTEIN-COUPLED RECEPTORS EXPRESSED IN BRAIN
    10 <130> FILE REFERENCE: 28341/6276NCP
C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/698,419
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     16 <151> PRIOR FILING DATE: 2000-01-12
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    43 <151> PRIOR FILING DATE: 1999-10-27
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    47 <170> SOFTWARE: Patentin Ver. 2.0
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                                  105
                                                      110
  364
  366 Phe Met Thr Ala Met Ser Phe Phe Arg Cys Ile Ala Ile Val Phe Pro
  367 115
                        120
                                                 125
  369 Val Gln Asn Ile Asn Leu Val Thr Gln Lys Lys Ala Arg Phe Val Cys
  370 130 135 140
  372 Val Gly Ile Trp Ile Phe Val Ile Leu Thr Ser Ser Pro Phe Leu Met
373 145 . 150 155 160
  375 Ala Lys Pro Gln Lys Asp Glu Lys Asn Asn Thr Lys Cys Phe Glu Pro
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  378 Pro Gln Asp Asn Gln Thr Lys Asn His Val Leu Val Leu His Tyr Val
  379 180
                                 185
                                                    190
  382 Ser Leu Phe Val Gly Phe Ile Ile Pro Phe Val Ile Ile Ile Val Cys
  383 195
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  385 Tyr Thr Met Ile Ile Leu Thr Leu Leu Lys Lys Ser Met Lys Lys Asn 386 210 215 220
  388 Leu Ser Ser His Lys Lys Ala Ile Gly Met Ile Met Val Val Thr Ala 389 225 230 230 235 240
  391 Ala Phe Leu Val Ser Phe Met Pro Tyr His Ile Gln Arg Thr Ile His 392 245 255
  394 Leu His Phe Leu His Asn Glu Thr Lys Pro Cys Asp Ser Val Leu Arg
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  395 260
                      265
  397 Met Glm Lys Ser Val Val Ile Thr Leu Ser Leu Ala Ala Ser Ash Cys
  398 275
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                                                 285
  400 Cys Phe Asp Pro Leu Leu Tyr Phe Phe Ser Gly Gly Asn Phe Arg Lys 401 290 295 300
  401 290
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                                               300
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DATE: 11/13/2000

RAW SEQUENCE LISTING

VERIFICATION SUMMARY

DATE: 11/13/2000

PATENT APPLICATION: US/09/698,419

TIME: 15:48:18

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Output Set: N:\CRF3\11132000\1698419.raw

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L:166 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:168 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:344 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:4 differs:2 L:546 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:5 L:1176 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 L:1178 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 L:2044 M:283 W: Missing Blank Line separator, <220> field identifier L:2448 M:254 E: No. of Bases conflict, LENGTH:Input:0 Counted:24 SEQ:60